ABSTRACT

 An optical filter comprising a slanted Bragg
grating inscribed in an optical fiber portion comprising
5 a core having a refractive index n_1 and a radius R_{core} and
a cladding having an average refractive index n_2 lower
than n_1 and a radius $R_{cladding}$, the core and the cladding of
the fiber being doped with a photosensitive dopant in the
fiber portion comprising the Bragg grating, which filter
10 is characterized in that, in the fiber portion comprising
the Bragg grating, the photosensitivity of the cladding
is greater than the photosensitivity of the core and the
cladding includes an index step area having a refractive
index n_3 greater than n_2 and less than n_1, said index step
15 area having a width L defined by an inside radius R_{s1}
greater than or equal to the radius R_{core} of the core and
an outside radius R_{s2} less than or equal to the radius
$R_{cladding}$ of the cladding.